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A **Boolean vector** is a vector with its only possible values being 0 and 1. A Boolean
function is a mapping from a **Boolean vector** to a Boolean value. ...
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The C++98 **vector<bool>** specialization stores **Boolean** values as bits rather ... Not all C++
programmers know that when they create a **vector<bool>** object, ...
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5.3 **Boolean** Vectors
vectors of bit values (boolean 1/0 values) are handled as a special case by the ... The
operations for a **boolean vector** , vector<bool>, are a superset of ...
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The **Boolean Vector** Machine [BVM]
by RA Wagner - 1983 - Cited by 14 - Related articles - All 3 versions
Richard M. King , Robert A. Wagner, Combining speed with alpha-particle induced memory,
error tolerance in a large **boolean vector** machine, ...
portal.acm.org/citation.cfm?id=801639 - Similar

Linear transformations in a **Boolean vector** space
by PV Jagannadham - 1966 - Cited by 5 - Related articles
The notion of a (abstract, normed) **Boolean vector** space is due to ... Abelian group G can
be made into a normed **Boolean vector** space by intro- ...
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Boolean vector space and P. V. Jagannadham [1] considered eigenvectors ... eigenvalues
in normed **Boolean vector** spaces with finite bases. The main ...
www.jstor.org/stable/2039738

boolean vector short-circuit evaluation. - NVIDIA Forums
1 post - 1 author - Last post: Jan 22
boolean vector short-circuit evaluation. Options V ... I want to scan the vector. If I find a
one, exit. ...
forums.nvidia.com/index.php?showtopic=157235 - Cached

4 OpenGL Vectors
Jump to gl-**boolean-vector**⁎: Operations on vectors of boolean elements. The gl-boolean-
vector+ and gl-**boolean-vector**- functions compute the ...
docs.plt-scheme.org/sgl/gl-**vectors**.html - Cached - Similar

Java 2 Platform SE v1.3.1: Class **Vector**
boolean, isEmpty() Tests if this **vector** has no components. ..... public **boolean** containsAll
(Collection c). Returns true if this **Vector** contains all of the ...
java.sun.com/j2se/1.3/docs/api/java/util/**Vector**.html - Cached - Similar

CiteSeerX — An Interior Point Approach to **Boolean Vector** Function ...

by AP Kamath - 1993 - Cited by 19 - Related articles
CiteSeerX - Document Details (Isaac Councill, Lee Giles): The **Boolean vector** function
synthesis problem can be stated as follows: Given a truth table with n ...
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algebra, the kind of algebra involving so-called real numbers. ...
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10 The Boolean, Modeling, and Verification Layers
Finally, in the Verilog, SystemVeriog and SystemC flavors, a bit **vector** is also interpretable
as a **Boolean expression**, and similarly to a single bit, is ...
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ON FREE BOOLEAN VECTORS. Zarko Mijajlovi c. Communicated by Mileva Prvanovi c.
Abstract. Let f(x. 1 ; x2 ;... ;x n) be a **Boolean expression** in n variables ...
www.emis.de/journals/PIMB/078/n078p002.ps

Automatic test generator for logic devices - US Patent 4853928 Claims
eliminating redundant terms from said predecessor **Boolean expression**. ... deriving a
primary product **vector** from said primary Boolean product; ...
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[PDF] ON EXTENDING THE **VECTOR** SPACE MODEL FOR **BOOLEAN** QUERY PROCESS
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by SKM Wong - 1986 - Cited by 27 - Related articles - All 5 versions
The transformation of a **Boolean expression** into a **vector** query can be illustrated with an
example. Example 3.1 Let M = {Mr. rd, 4, r3&} be a set of atomic ...
citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.94.9059&rep...

Method for evaluating boolean expressions - Patent 4417305
by V Berstis - 1983 - Cited by 3 - Related articles - All 2 versions
Evaluation of the **boolean expression** is then performed by translating the first **vector**
using the boolean variables as a translate table. ...
www.freepatentsonline.com/4417305.html

Introduction to Boolean algebra - Wikipedia, the free encyclopedia
Jump to Subsets as bit **vectors**: From this bit **vector** viewpoint, a concrete **Boolean** algebra
can be defined equivalently as a nonempty set of bit **vectors** ...
en.wikipedia.org/wiki/Introduction_to_**Boolean**_algebra - Cached - Similar

Types, Values, and Variables
A **boolean expression** also determines which subexpression is evaluated in the ..... The
reverse assignment from **Vector** to **Vector**<String> is unsafe (since the ...
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Boolean operators for bit **vectors** are applied. ... An **expression** being a sum of many
subexpressions containing common factors can be rewritten to better see ...
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maketime - HEASARC: NASA's Archive of Data on Energetic Phenomena
The result will be the minimum/maximum element contained within the **vector**. In the if-then-
else **expression**, "b?x:y", b is an explicit **boolean** value or ...
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Range-based **query optimizer** - US Patent 6439783 Claims
(A) creating a **Boolean expression** that corresponds to the **query**; ... Jakobsen, "
Implementation of Compressed Bit-**Vector** Indexes", Euro IFIP79, North Holland ...
www.patentstorm.us/patents/6439783/claims.html

[PDF] **Information Retrieval Modeling documents**
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Evaluate doc. on expression query as you would any **Boolean expression** ... Calculate a
vector function of the document vector and the **query vector** to get the .... + Get power of
Boolean Algebra: expressivenss and **optimize** query forms ...
www.cs.princeton.edu/courses/archive/fall08/cos597A/Notes/ir.pdf

Method and computer system for **optimization of a Boolean ...**
by V Sauermann - 2005
Jul 6, 2005 ... statement to **optimize** the **query**. The **Boolean expression** refers to an. ... A
relationship **vector** of the at least one condition value is ...
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There exist **optimization** algorithms for **boolean expressions** which where ..... From now
on, we shall use x as a shorthand for a **vector** like(xr,..., xn); in the examples, ... In the
context of **query optimization** in relational da ...
citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.103.269&rep...

Hyperbolic 0–1 programming and **query optimization in ...**
by P Hansen - 1991 - Cited by 38 - Related articles
Let x* denote a 0-1 n-**vector**. In view of hypothesis .... Such **query** is a demand for
documents formulated as a **Boolean expression** using ...
www.springerlink.com/index/PXN3L8447V612854.pdf

The extended **Boolean model versus ranked retrieval**
A strict **Boolean expression** over terms with an unordered results set is too limited for ...
retrieval via linear time merges and simple **query optimization**. ...
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mensions **vector**. (T: Number of users). 5 **OPTIMIZATION** PROCESS ... **Query** is a non-
Boolean expression and some users using it. Style of answering for queries ...
arxiv1.library.cornell.edu/pdf/1001.3494

Relational **query processing, query optimization** bibliography ...
(**optimization** issues); Optimizing **Boolean Expressions** in Object-Bases. ... (**query**
processing); Domain **Vector** Accelerator for Relational Operations. ...
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A GA-based **query optimization** method for web information retrieval ...
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Aug 28, 2006 ... Formally, the **query vector** is reformulated as follows: .... in two manners:
(1) positive expansion adds terms to a user's keywords with a **Boolean** "and"; ... the
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A comparison of two methods for **boolean query** relevancy feedback ...
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Rocchio has shown that an approximation to an optimal **query vector** may be .... the whole
expression being divided by freq the total frequency of ..... G. Salton , Relevance feedback
and the **optimization** of retrieval effectiveness Chap. ...
linkinghub.elsevier.com/retrieve/pii/0306457384900803

6.830 Lab 4: **Query Optimization**
In this lab, you will implement a **query optimizer** on top of SimpleDB. .... To estimate the
selectivity of an equality **expression**, f=const, ... **Vector** orderJoins(HashMap stats,
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db.csail.mit.edu/6.830/assignments/lab4.html - Cached

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on bitmaps are very fast, and queries that can take ... contrasts with indexes such as
"encoded **vector** indexes" where each index ...
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J2ME-Based Application of **Vector** Space in **Query Optimization**
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resemblance in design of this **query optimization**. The resemblance can be measured by
the angle .... Product of **Boolean vector** (q[ ]) and the weight **vector** ...
ieeexplore.ieee.org/iel5/4609447/4609622/04609766.pdf?arnumber...

Query Extensions
Dec 3, 1998 ... The language should make every effort to **optimize** well for .... It is used to
describe a pattern for constructing a **vector** of nodes. ..... where="**boolean expression**
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edstream.sybase.com/slondemandtestdrive/courses/edb634/edb634_toc.pdf

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search terms (often constrained by a **Boolean expression**, ... Voorhees (2000) **counter**
argue precision-at-document-n is unstable and demonstrate the .... easier to store in
indexes than floating point numbers (**query vector** ..... In both run 5 and run 13 there has
been no attempt to **optimize** the value of n, to do so ...
www.springerlink.com/index/RL480182Q2323W08.pdf

PostgreSQL: Documentation: Manuals: PostgreSQL 8.2: Value **Expressions**
A scalar subquery is an ordinary SELECT **query** in parentheses that returns exactly ....
Boolean expressions (AND/OR/NOT combinations) in those clauses may be ... A CASE

construct used in this fashion will defeat **optimization** attempts, ...
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Keyword and **Boolean** Searches
The **Vector** Method. The "OneBox" Model. Social Methods. Federation .... function will
increase the number of keywords in the **query** based on what terms appear most .... either
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we include an **optimization** where we skip processing ...
ilpubs.stanford.edu:8090/927/2/wand_vldb.pdf

Relational **query** processing, **query optimization** bibliography ...
ACM SIGMOD Conference **2003**. (industrial, crm and **query optimization**) ..... (
optimization issues); Optimizing **Boolean Expressions** in Object-Bases. ... (query
processing); Domain **Vector** Accelerator for Relational Operations. ...
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In **boolean** mode, the search for the given words is performed. ... OR, NOT, and
parenthesis can be used to form a **query expression** of arbitrary complexity. ... MySQL
Fulltext Search utilizes a variant of **vector** space model. ..... Partial evaluation of sub-
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Berlin, Germany, **2003**. Figure 1: Block color histogram image block histogram .... the
optimizer the definitions of the functions of all the prin- .... on the complete **expression** of
the **query** of which the func- tion is part. ...
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Their **expression** in SQL:1999 is complex and therefore both hard to read and difficult to
optimize. .... size-preserving **vector**-to-**vector** functions. 2.3 An Algebra and **Query**
Language .... is sorted over src, dest, and ts and that the **boolean** ...... **2003**. [11] Melton, J.,
"Advanced SQL:1999 – Understant- ...
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tree of the height needed for matching a **vector** of (in our case) length 8. In principle, a ...
tern in some **query** language, for example, a regular expression, a **Boolean expression**,
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May 18, 2004 ... except that the user data is injected in a **Boolean expression** context. ... Finally, each Boolean **query** can be resolved by a single "blind" injection. ..... areas where **optimization** can be applied, for example, predicting a ... [7] "XML Path Language (XPath) 2.0 – W3C Working Draft, 12 November **2003**", ...
www.packetstormsecurity.org/.../Blind_XPath_Injection_20040518.pdf - Similar

An extensible model of selectivity estimation - Elsevier
by M Angel - 1989
Communicated by Ahmed Elmagarmid. Available online 20 May **2003**. .... It is performed by the **query optimizer** during the evaluation of an access plan. ... OR, Range Relational expression types Simple Parameters Mean **vector**, ... The interface to an estimate procedure includes a **Boolean expression** and a list of ...
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SQL WHERE clauses: Avoid CASE, use **Boolean** logic
However, this is kind of **counter**-intuitive (why should we check that EmpID = EmpID ? ...
The alternative is to translate the **condition** into a regular **boolean** expression using ... the
rest of the expression can be ignored by the **optimizer**. .... existing report which has an
existing where clause in its dataset **query**. ...
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conditions in the WHERE clause, can be ex- ... The labels at the nodes of Q are **boolean**
compositions of predicates. ...
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Query optimization in a multi-tenant database system - US Patent ...
Nov 8, 2006 ... In general, one goal of a **query optimizer** is to minimize the amount of data
that ... will yield the fewest rows when the query **condition** is evaluated. ..... Similarly if a
boolean field has 95% true values, then filtering on false ... Inserts incrementa **counter**,
while updates to a different value ...
www.patentstorm.us/patents/7529728/description.html - Similar

Query Optimization through Cached Queries for Object-Oriented ...
by P Cybula - 2010
query optimization. It assumes that there is a relatively high probability that the same .....
tions on **Boolean** expressions and on sets of query results (bags). ... If a cached query is
used, the system updates its use **counter**. ..... 131–166 (**2003**). 2. Blakeley, J.A., Larson,
P., Tompa, W.M.: Efficiently Updating ...
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(WO/2005/031514) **QUERY OPTIMIZATION** IN A MULTI-TENANT DATABASE SYSTEM
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We found that, **counter** to general wisdom regarding the .... ACM Press, **2003**. [2] E. W.
Brown. Fast evaluation of structured queries for ...
cilr.cs.umass.edu/pubfiles/ir-394.pdf - Similar

QUERY OPTIMIZATION IN A MULTI-TENANT DATABASE SYSTEM - Patent ...
by C Weissman - 2009
The **optimizer** therefore typically chooses tables or columns that are most "selective"—that
is, will yield the fewest rows when the **query condition** is ...
www.freepatentsonline.com/y2009/0276395.html

Auditing **Boolean** attributes*1 - Elsevier
by J Kleinberg - 2003 - Cited by 92 - Related articles
Volume 66, Issue 1, February **2003**, Pages 244-253 .... Recall the generic auditing
condition discussed above—given a collection of **query** sets, ... it consists of n bi-directed
edges with cost 1 clockwise and 0 **counter**-clockwise, ... Given a collection of **Boolean**
variables x1,...,xn, and a sequence of **query** sets S1,... ...
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☐ **1. Exploring Topological Structure of Boolean Expressi Selection**

Lian Yu; Wei Zhao; Xiangdong Fan; Jun Zhu;
Theoretical Aspects of Software Engineering, 2009. TASE 2009. Third IEEE
29-31 July 2009 Page(s):267 - 274
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AbstractPlus | Full Text: PDF(336 KB)   IEEE CNF
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☐ **2. Efficient symbolic simulation-based verification usin form of Boolean expressions**

Jain, P.; Gopalakrishnan, G.;
Computer-Aided Design of Integrated Circuits and Systems, IEEE Transaction
Volume 13, Issue 8, Aug. 1994 Page(s):1005 - 1015
Digital Object Identifier 10.1109/43.298036
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Paradkar, A.; Tai, K.C.;
Software Reliability Engineering, 1995. Proceedings., Sixth International Sym
24-27 Oct. 1995 Page(s):106 - 115
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☐ **4.**

Analyzing and Extending MUMCUT for Fault-based Te Boolean Expressions

Chang-ai Sun; Yunwei Dong; Lai, R.; Sim, K.Y.; Chen, T.Y.;
Computer and Information Technology, 2006. CIT '06. The Sixth IEEE Interna
Sept. 2006 Page(s):184 - 184
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☐   **5.** **An Algebraic Language for Distributed Quantum Com**

Mingsheng Ying; Yuan Feng;
Computers, IEEE Transactions on
Volume 58, Issue 6, June 2009 Page(s):728 - 743
Digital Object Identifier 10.1109/TC.2009.13

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☐   **6.** **Optimization of Boolean Expressions-Historical Deve**

Minker, Jack; Minker, Rita G.;
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Volume 2, Issue 3, July-Sept. 1980 Page(s):227 - 238
Digital Object Identifier 10.1109/MAHC.1980.10029

AbstractPlus | Full Text: PDF(11910 KB)   IEEE JNL
Rights and Permissions

☐   **7.** **Efficient Parallel Evaluation of Boolean Expressions**

Preparata, F.P.; Muller, D.E.;
Computers, IEEE Transactions on
Volume C-25, Issue 5, May 1976 Page(s):548 - 549
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☐   **8.** **Towards Selecting Test Data Using Topological Struc**
Expressions

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Jain, T.K.; Kushwaha, D.S.; Misra, A.K.;
Autonomic and Autonomous Systems, 2008. ICAS 2008. Fourth International
16-21 March 2008 Page(s):165 - 168
Digital Object Identifier 10.1109/ICAS.2008.11

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☐   **10.** **Programming Boolean expressions for testability**

White, A.L.;

Aerospace Conference, 2004. Proceedings. 2004 IEEE
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11. Boolean expression diagrams

Andersen, H.R.; Hulgaard, H.;
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29 June-2 July 1997 Page(s):88 - 98
Digital Object Identifier 10.1109/LICS.1997.614938
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12. Correctness verification of VLSI modules supported I
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Computer Design: VLSI in Computers and Processors, 1989. ICCD '89. Proce
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13. Detecting Double Faults on Term and Literal in Boole

Lau, M.F.; Liu, Y.; Yu, Y.T.;
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Digital Object Identifier 10.1109/CSMR.2004.1281417
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15. Beat: Boolean expression fault-based test case gene

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16. Realization of Boolean Expressions by Atomic Digra

Prather, R.E.; Casstevens, H.T.;
Computers, IEEE Transactions on

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17. **A composite mapping technique for simplification of Boolean expressions**

Shafiqul Khalid, A.T.M.; Ahmed, F.; Karim, M.A.;
Aerospace and Electronics Conference, 1995. NAECON 1995., Proceedings
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18. **Calculating the Probability of Boolean Expression Be**

Schneeweiss, W.G;
Reliability, IEEE Transactions on
Volume R-26, Issue 1, April 1977 Page(s):16 - 22
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19. **A Decomposition Method for Computing System Reli Boolean Expression**

Nakazawa, Hayao;
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Digital Object Identifier 10.1109/TR.1977.5220143
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20. **The testability-preserving concurrent decomposition of Boolean expressions**

Rajski, J.; Vasudevamurthy, J.;
Computer-Aided Design of Integrated Circuits and Systems, IEEE Transactio
Volume 11, Issue 6, June 1992 Page(s):778 - 793
Digital Object Identifier 10.1109/43.137523
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21. **Equivalence checking of combinational circuits using expression diagrams**

Hulgaard, H.; Williams. P.F.; Andersen, H.R.;
Computer-Aided Design of Integrated Circuits and Systems, IEEE Transactio
Volume 18, Issue 7, July 1999 Page(s):903 - 917
Digital Object Identifier 10.1109/43.771175
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22. **A channelless layout for multilevel synthesis with co**

Saucier, G.; Leveugle, R.; Abouzeid, P.;

Computer Design: VLSI in Computers and Processors, 1989. ICCD '89. Proc
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□ **23. Enhanced TED: A New Data Structure for RTL Verific**

Lotfi-Kamran, P.; Massoumi, M.; Mirzaei, M.; Navabi, Z.;
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□ **24. A Study of Enhanced MC/DC Coverage Criterion for S**

Jun-Ru Chang; Chin-Yu Huang;
Computer Software and Applications Conference, 2007. COMPSAC 2007. 31
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□ **25. Analysis and implementation of public-key cryptosys**
      Boolean satisfiability problem

Singh, S.;
Networks, 2005. Jointly held with the 2005 IEEE 7th Malaysia International C
Communication., 2005 13th IEEE International Conference on
Volume 2, 16-18 Nov. 2005 Page(s):6 pp.
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2 An evaluation of Boolean expression testing techniques
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Increase in the size and complexity of the software developed has made
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Keywords: branch testing, fault, mutant, software testing

3 Indexing Boolean expressions
Steven Euijong Whang, Hector Garcia-Molina, Chad Brower, Jayavel Shann
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We consider the problem of efficiently indexing Disjunctive Normal Form
Form (CNF) Boolean expressions over a high-dimensional multi-valued a
find the set of Boolean expressions that ...

4 Efficient evaluation of Boolean expressions
V. Sinha, K. Vinod Kumar
December 1978 **SIGPLAN Notices** , Volume 13 Issue 12
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An algorithm for the generation of an optimal code applicable to a parse
The algorithm generates the code during parsing itself.

Keywords: Boolean expression evaluation, optimal code

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P. D. Laird
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Keywords: Boolean expression, file organization, information retrieval,

6 An optimal evaluation of Boolean expressions in an online query sys
Michael Z. Hanani
May 1977   **Communications of the ACM** , Volume 20 Issue 5
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Keywords: Boolean expression, file organization, information retrieval,

7 On translation of Boolean expressions
H. H. Bottenbruch, A. A. Grau
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A program which translates an algorithmic language such as ALGOL into
electronic computer performs the following functions: Analysis. From th
are determined the ...

8 Evaluation of boolean expressions on one's complement machines
Peter L. Montgomery
December 1978   **SIGPLAN Notices** , Volume 13 Issue 12
Publisher: ACM
Full text available: Pdf (599.08 KB)   Additional Information: full citation, abstract

An algorithm is presented which evaluates an arbitrary boolean express
and which often generates fewer instructions than other methods the a
what code to generate whenever a boolean ...

9

Application of Boolean expression minimization to learning via hierar

Jianhua Chen
April 1994   **SAC '94:** Proceedings of the 1994 ACM symposium on Applied
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Keywords: Boolean expression minimization, generalization hierarchy,

10 A multimedia synchronization model described by Boolean expressio
Tatsuo Sato, Joung-Hoon Lim, Ken-ichi Okada, Yutaka Matsushita
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In this paper, a multimedia synchronization model is proposed. The pur
temporal relationships(i.e. time ordering and synchronization for multim
media. In the model, user interactions, ...

11 A new solution to test generation for Boolean expressions
Amit Paradkar
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In this paper [1] , we propose a new solution for generating test cases f
we have reported algorithm BOR for generating test cases for predicate
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12 Computer expansion of Boolean expressions
Y. H. Chuang, C. C. Kao
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A computer oriented algorithm for symbolically expanding Boolean expr
"complement" operators into their disjunctive normal form is presented.
in ...

13 Optimizing Boolean Expressions in Object-Bases
Alfons Kemper, Guido Moerkotte, Michael Steinbrunn
August 1992 **VLDB '92:** Proceedings of the 18th International Conference o
Publisher: Morgan Kaufmann Publishers Inc.
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14

An Algorithm for Translating Boolean Expressions
Bruce W. Arden, Bernard A. Galler, Robert M. Graham
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15 Compiling techniques for Boolean expressions and conditional stater
H. D. Huskey, W. H. Wattenburg
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16 Delay fault test generation for scan/hold circuits using Boolean expre
D. Bhattacharya, P. Agrawal, V. D. Agrawal
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17 Simplification of the Covering Problem with Application to Boolean E
M. A. Breuer
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18 The Unison algorithm: fast evaluation of Boolean expressions
Rok Sosič, Jun Gu, Robert R. Johnson
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We present a Unison algorithm to evaluate arbitrarily complex Boolean
based on the total differential of a Boolean function, enables fast evalua
software. Any combination of Boolean operations ...

Keywords: Boolean differential, Boolean evaluation, Boolean expressio

19 BLOSOM: a framework for mining arbitrary boolean expressions
Lizhuang Zhao, Mohammed J. Zaki, Naren Ramakrishnan
August 2006 **KDD '06:** Proceedings of the 12th ACM SIGKDD international
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We introduce a novel framework, called BLOSOM, for mining (frequent)
valued datasets. We organize the space of boolean expressions into fou
disjunctions, conjunction of disjunctions, ...

Keywords: boolean expression, closed itemsets, data mining, minimal

20 Generation of optimal code for expressions via factorization

Melvin A. Breuer

June 1969   **Communications of the ACM** , Volume 12 Issue 6

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Given a set of expressions which are to be compiled, methods are prese
the object code produced by first factoring the expressions, i.e. finding
occurs in two or more other expressions ...

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      Keywords: Boolean expression, file organization, information retrieval,

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   Christopher Ré, Dan Suciu
   August 2008 **Proceedings of the VLDB Endowment** , Volume 1 Issue 1
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      In probabilistic databases, *lineage* is fundamental to both query process
      Current systems s.a. Trio or Mystiq use a *complete approach* in which th
      formula which represents ...

4 A query language for a network data base with graphical entities
   Richard L. Phillips
   August 1977 **SIGGRAPH '77:** Proceedings of the 4th annual conference on
   techniques
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A generalized high level query language has been developed for use wit
the CODASYL DBTG report. Of particular interest is the capability of mar
language. The system was developed ...

Keywords: DBTG model, cartography, computer graphics, data base, c
network model, query language

Also published in:
August 1977 **SIGGRAPH Computer Graphics** Volume 11 Issue 2

5　Context-aware scanning for parsing extensible languages
　　Eric R. Van Wyk, August C. Schwerdfeger
　　October 2007　**GPCE '07**: Proceedings of the 6th international conference on
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This paper introduces new parsing and context-aware scanning algorithm
contextual information to disambiguate lexical syntax. The parser uses a
that passes to the scanner the set of valid ...

Keywords: context-aware scanning, extensible languages

6　Compressing inverted files in scalable information systems by binary
　　Chung-Hung Lai, Tien-Fu Chen
　　November 2001　**Supercomputing '01:** Proceedings of the 2001 ACM/IEEE
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One of the key challenges of managing very huge volumes of data in sc
providing fast access through keyword searches. The major data structu
is an inverted file, which records ...

Keywords: BDD, information retrieval, inverted file, scalable informatic

7　Queries-R-Links: graphical markup for text navigation
　　Gene Golovchinsky, Mark Chignell
　　May 1993　　**CHI '93:** Proceedings of the INTERACT '93 and CHI '93 confer
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In this paper we introduce a style of interaction (interactive querying) t
with Boolean querying, using direct markup of text to launch queries. W

compare the relative ease of expressing ...

Keywords: hypertext, navigation, pen-based interaction, querying, tex

8   Algorithms for parsing search queries in systems with inverted file or
    Jane W. S. Liu
    December 1976   **Transactions on Database Systems (TODS)** , Volume 1 Is
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    In an inverted file system a query is in the form of a Boolean expressior
    query the system accesses the inverted lists corresponding to the index
    from the merged list those records that ...

    Keywords: inverted file systems, merge algorithms, parsing Boolean q

9   Improving user performance on Boolean queries
    John F. Pane, Brad A. Myers
    April 2000   **CHI '00:** CHI '00 extended abstracts on Human factors in com
    Publisher: ACM ◇ Request Permissions
    Full text available: 📄 Pdf (226.63 KB)   Additional Information: full citation, abstrac

    Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 19, Downloa

    The accurate formulation of boolean expressions is a notorious problem
    database and web query tools. Users have demonstrated great difficulty
    specifying these queries, which uses ...

    Keywords: end-user programming, information retrieval, psychology o

10 Information retrieval in files described using sets
    James W. Welch, J. Wesley Graham
    May 1975   **SIGMOD '75:** Proceedings of the 1975 ACM SIGMOD internatio
    data
    Publisher: ACM ◇ Request Permissions
    Full text available: 📄 Pdf (627.73 KB)   Additional Information: full citation, abstrac

    Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 7, Download

    A number of file structures (e.g., inverted files and multilist files) can be
    whose contents are described using sets. With each of these sets is asso
    Boolean expression of attributes. ...

    Keywords: attributes, boolean functions, boolean queries, file organiza
    file, multilist file, retrieval

11 Mind your vocabulary: query mapping across heterogeneous informa
    Chen-Chuan K. Chang, Héctor García-Molina

June 1999 **SIGMOD '99:** Proceedings of the 1999 ACM SIGMOD internati
data
Publisher: ACM ◇ Request Permissions
Full text available: 🔲 Pdf (1.67 MB)   Additional Information: full citation, abstrac

Bibliometrics: Downloads (6 Weeks): 4,   Downloads (12 Months): 36,   Downloa

In this paper we present a mechanism for translating constraint queries
constraints, across heterogeneous information sources. Integrating such
they ...

Also published in:
June 1999 **SIGMOD Record** Volume 28 Issue 2

12 On extending the vector space model for Boolean query processing
S. K. M. Wong, V. V. Raghavan, P. C. N. Wong
September 1986 **SIGIR '86:** Proceedings of the 9th annual international AC
development in information retrieval
Publisher: ACM ◇ Request Permissions
Full text available: 🔲 Pdf (1.07 MB)   Additional Information: full citation, abstrac

Bibliometrics: Downloads (6 Weeks): 7,   Downloads (12 Months): 58,   Downloa

An information retrieval model, named the Generalized Vector Space Mc
situations where queries are specified as (extended) Boolean expression
unlike currently available alternatives, ...

13 Access path selection in a relational database management system
P. Griffiths Selinger, M. M. Astrahan, D. D. Chamberlin, R. A. Lorie, T. G. P
May 1979 **SIGMOD '79:** Proceedings of the 1979 ACM SIGMOD internati
data
Publisher: ACM ◇ Request Permissions
Full text available: 🔲 Pdf (1.31 MB)   Additional Information: full citation, abstrac

Bibliometrics: Downloads (6 Weeks): 73,   Downloads (12 Months): 676,   Downl

In a high level query and data manipulation language such as SQL, requ
without reference to access paths. This paper describes how System R c
(single relation) and complex queries (such ...

14 Concept based retrieval in classical IR systems
H. P. Giger
May 1988 **SIGIR '88:** Proceedings of the 11th annual international ACM
development in information retrieval
Publisher: ACM ◇ Request Permissions
Full text available: 🔲 Pdf (1.46 MB)   Additional Information: full citation, abstrac

Bibliometrics: Downloads (6 Weeks): 4,   Downloads (12 Months): 40,   Downloa

This paper describes some aspects of a project with the aim of developi
classical Information Retrieval (IR) System in order to improve the effe
character approach to IR ...

15 Definable relations and first-order query languages over strings

Michael Benedikt, Leonid Libkin, Thomas Schwentick, Luc Segoufin
September 2003 **Journal of the ACM (JACM)** , Volume 50 Issue 5
Publisher: ACM ◆ Request Permissions
Full text available: 📄 Pdf (587.44 KB)   Additional Information: full citation, abstrac

Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 69, Downloa

We study analogs of classical relational calculus in the context of strings
Taking a classical model-theoretic approach, we fix a set of string opera
collection of definable relations. ...

Keywords: Strings, expressive power, first-order definability, quantifie

16 Boolean + ranking: querying a database by k-constrained optimizatic
Zhen Zhang, Seung-won Hwang, Kevin Chen-Chuan Chang, Min Wang, Chi
June 2006   **SIGMOD '06: Proceedings of the 2006 ACM SIGMOD internati**
data
Publisher: ACM ◆ Request Permissions
Full text available: 📄 Pdf (316.14 KB)   Additional Information: full citation, abstrac

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 104, Downlo

The wide spread of databases for managing structured data, compoundo
Internet, has brought forward interesting *data retrieval* and *analysis* sce
queries often take the form ...

Keywords: A* search, constrained optimization, index, query processir

17 On using extended statistical queries to avoid membership queries
Nader H. Bshouty, Vitaly Feldman
March 2002 **The Journal of Machine Learning Research** , Volume 2
Publisher: MIT Press
Full text available: 📄 Pdf (355.87 KB)   Additional Information: full citation, abstrac

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 14, Downloa

The Kushilevitz-Mansour (KM) algorithm is an algorithm that finds all th
Boolean function. It is the main tool for learning decision trees and DNF
respect to the uniform distribution. ...

18 An algebra for structured office documents
Ralf Hartmut Güting, Roberto Zicari, David M. Choy
April 1989   **Transactions on Information Systems (TOIS)** , Volume 7 Iss
Publisher: ACM ◆ Request Permissions
Full text available: 📄 Pdf (2.57 MB)   Additional Information: full citation, abstrac

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 31, Downloa

We describe a data model for structured office information objects, whic
and a practically useful algebraic language for the retrieval and manipul
viewed as hierarchical ...

19

A probabilistic relational algebra for the integration of information ret
Norbert Fuhr, Thomas Rölleke
January 1997 **Transactions on Information Systems (TOIS)** , Volume 15
Publisher: ACM Request Permissions
Full text available: Pdf (2.10 MB)   Additional Information: full citation, abstrac

Bibliometrics: Downloads (6 Weeks): 24, Downloads (12 Months): 151, Downl

We present a probabilistic relational algebra (PRA) which is a generaliza
PRA, tuples are assigned probabilistic weights giving the probability that
on intensional semantics, ...

Keywords: hypertext retrieval, imprecise data, logical retrieval model,
model, uncertain data, vague predicates

20 Path expressions for complex queries and automatic database progr
Ben Shneiderman, Glenn Thomas
October 1980 **VLDB '1980: Proceedings of the sixth international con**
          Volume 6 , Volume 6
Publisher: VLDB Endowment
Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downl

Our efforts to develop an automatic database system conversion facility
language which was designed for ease of conversion. The path expressi
convenient and appealing notation for describing ...

Keywords: data definition language, data manipulation language, data
path expressions, program conversion, query languages, transformatior

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1 Natural-language retrieval of images based on descriptive captions
◈ Eugene J. Guglielmo, Neil C. Rowe
July 1996   **Transactions on Information Systems (TOIS)** , Volume 14 I
Publisher: ACM ◈ Request Permissions
Full text available: 📄 Pdf (572.05 KB)   Additional Information: full citation, abst

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 51, Downloa

We describe a prototype intelligent information retrieval system that us
efficiently locate captioned data. Multimedia data generally require capt
Such descriptive captions ...

Keywords: captions, multimedia database, type hierarchy

2 Semantic caching of Web queries
Boris Chidlovskii, Uwe M. Borghoff
March 2000   **The VLDB Journal — The International Journal on Very**
Publisher: Springer-Verlag New York, Inc.
Full text available: 📄 Pdf (235.09 KB)   Additional Information: full citation, abst

Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 52, Downloa

In meta-searchers accessing distributed Web-based information reposito
query processing requires an appropriate caching mechanism. Unfortun
based caching mechanisms ...

Keywords: Experiments, Query algorithms, Region containment, Sema

3 The complexity of XPath query evaluation and XML typing
◈ Georg Gottlob, Christoph Koch, Reinhard Pichler, Luc Segoufin
March 2005   **Journal of the ACM (JACM)** , Volume 52 Issue 2
Publisher: ACM ◈ Request Permissions
Full text available: 📄 Pdf (447.53 KB)   Additional Information: full citation, abst

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 96, Downlo

We study the complexity of two central XML processing problems. The f
been shown to be in PTIME in previous work. We prove that both the da
XPath 1.0 fall into lower ...

Keywords: Complexity, DTD, LOGCFL, XML, XPath

4 XIRQL: An XML query language based on information retrieval conc
Norbert Fuhr, Kai Großjohann
April 2004　　**Transactions on Information Systems (TOIS)**, Volume 22 I
Publisher: ACM ◇ Request Permissions
Full text available: 🔧 Pdf (281.91 KB)　　　　Additional Information: full citation, abst

Bibliometrics: Downloads (6 Weeks): 11,　Downloads (12 Months): 83,　Downlo

XIRQL ("circle") is an XML query language that incorporates imprecision
content-oriented query conditions. The corresponding uncertainty is har
core features of XIRQL ...

Keywords: Path algebra, XML, XQuery, probabilistic retrieval, ranked r

5 Approximate query mapping: Accounting for translation closeness
Kevin Chen-Chuan Chang, Héctor García-Molina
September 2001　**The VLDB Journal — The International Journal on Ve**
Publisher: Springer-Verlag New York, Inc.
Full text available: 🔧 Pdf (661.19 KB)　　　　Additional Information: full citation, abst

Bibliometrics: Downloads (6 Weeks): 5,　Downloads (12 Months): 22,　Downloa

In this paper we present a mechanism for approximately translating Boo
information sources. Achieving the best translation is challenging becau
formulating queries, ...

Keywords: Approximate query translation, Closeness, Constraint-mapp

6 Optimizing object queries using an effective calculus
Leonidas Fegaras, David Maier
December 2000　**Transactions on Database Systems (TODS)**, Volume 25 I
Publisher: ACM ◇ Request Permissions
Full text available: 🔧 Pdf (641.65 KB)　　　　Additional Information: full citation, abst

Bibliometrics: Downloads (6 Weeks): 11,　Downloads (12 Months): 91,　Downlo

Object-oriented databases (OODBs) provide powerful data abstractions
lack a suitable framework for query processing and optimization. The de
one of the key factors ...

Keywords: nested relations, object-oriented databases, query decorrel

7 Shortest-substring retrieval and ranking
Charles L. A. Clarke, Gordon V. Cormack
January 2000　**Transactions on Information Systems (TOIS)**, Volume 18 I
Publisher: ACM ◇ Request Permissions
Full text available: 🔧 Pdf (228.35 KB)　　　　Additional Information: full citation, abst

We present a model for arbitrary passage retrieval using Boolean querie documents, or other structural elements, in the order of their expected truncation, and ...

Keywords: Boolean retrieval model, passage retrieval, relevance ranki

8   CANDID: preventing sql injection attacks using dynamic candidate e

Sruthi Bandhakavi, Prithvi Bisht, P. Madhusudan, V. N. Venkatakrishnan
October 2007 CCS '07: Proceedings of the 14th ACM conference on Compu

Publisher: ACM ◆ Request Permissions
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SQL injection attacks are one of the topmost threats for applications wr through specially crafted user input on web applications that use low lev In this work, ...

Keywords: dynamic monitoring, retrofitting code, sql injection attacks,

9   Simulation-based verification using Temporally Attributed Boolean L

S. K. Panda, Arnab Roy, P. P. Chakrabarti, Rajeev Kumar
September 2008 Transactions on Design Automation of Electronic Sys

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We propose a specification logic called Temporally Attributed Boolean (T which allows us to: (i) represent assertions succinctly, (ii) incorporate d design intentions. ...

Keywords: Bus verification, instruction semantics verification, interrup simulation based verification, temporal logic, timing verification

10 Simple and safe SQL queries with c++ templates

Joseph (Yossi) Gil, Keren Lenz
October 2007 GPCE '07: Proceedings of the 6th international conference or
engineering

Publisher: ACM ◆ Request Permissions
Full text available: 🔲 Pdf (325.50 KB)   Additional Information: full citation, abst

Most software applications use a relational database for data manageme database is often done by letting the program construct strings with val execution to the database ...

Keywords: C++, databases, domain specific languages, embedded lan
equivalence, template programming

11 Execution strategies for SQL subqueries
Mostafa Elhemali, César A. Galindo-Legaria, Torsten Grabs, Milind M. Joshi
June 2007 **SIGMOD '07:** Proceedings of the 2007 ACM SIGMOD internat
Publisher: ACM ◇ Request Permissions
Full text available: 📄 Pdf (513.79 KB)
Additional Information: full citation, abst

Bibliometrics: Downloads (6 Weeks): 17, Downloads (12 Months): 168, Downl

Optimizing SQL subqueries has been an active area in database researc
last decades. Previous work has already identified some approaches to c
satisfactory performance, ...

Keywords: microsoft SQL server, query optimization, relational databa

12 Type-checking OQL queries in the ODMG type systems
Suad Alagíc
September 1999 **Transactions on Database Systems (TODS)** , Volume 24
Publisher: ACM ◇ Request Permissions
Full text available: 📄 Pdf (224.69 KB)
Additional Information: full citation, abst

Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 47, Downloa

Several negative results are proved about the ability to type-check quer
object-oriented databases. The first of these negative results is that it is
the type system ...

Keywords: C++, Java, ODMG standard, OQL, parametric polymorphisr

13 Video query processing in the VDBMS testbed for video database re
Walid Aref, Moustafa Hammad, Ann Christine Catlin, Ihab Ilyas, Thanaa Gh
November 2003 **MMDB '03:** Proceedings of the 1st ACM international works
Publisher: ACM ◇ Request Permissions
Full text available: 📄 Pdf (357.93 KB)
Additional Information: full citation, abst

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 39, Downloa

The increased use of video data sets for multimedia-based applications
database support, including efficient methods for handling the content-t
query processing presents ...

Keywords: continuous query, query processing, rank-join algorithm, st
join algorithm

14 A self-managing data cache for edge-of-network web applications
Khalil Amiri, Sanghyun Park, Renu Tewari
November 2002 **CIKM '02:** Proceedings of the eleventh international confer
management

Publisher: ACM ◆❯ Request Permissions
Full text available: 📄 Pdf (340.44 KB)   Additional Information: full citation, abst

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 43, Downloa

Database caching at proxy servers enables dynamic content to be gener
improving the scalability and response time of web applications. The sca
with the rising costs of their ...

Keywords: dynamic content, e-commerce, semantic caching

15 GPGPU: general purpose computation on graphics hardware
◆ David Luebke, Mark Harris, Jens Krüger, Tim Purcell, Naga Govindaraju, Ia
August 2004 **SIGGRAPH '04:** SIGGRAPH 2004 Course Notes
Publisher: ACM ◆❯ Request Permissions
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The graphics processor (GPU) on today's commodity video cards has ev
processor. The latest graphics architectures provide tremendous memor
with fully programmable vertex ...

16 A language and framework for invariant-driven transformations
◆ Yanhong A. Liu, Michael Gorbovitski, Scott D. Stoller
October 2009 **GPCE '09:** Proceedings of the eighth international conference
engineering
Publisher: ACM ◆❯ Request Permissions
Full text available: 📄 Pdf (408.25 KB)   Additional Information: full citation, abst

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 12, Downloa

This paper describes a language and framework that allow coordinated
specified declaratively, as invariant rules, and applied automatically. The
maintenance of invariants for program ...

Keywords: incremental maintenance, invariants, program optimization
checking

17 Identifying query incompatibilities with evolving XML schemas
◆ Pierre Genevès, Nabil Layaïda, Vincent Quint
August 2009 **ICFP '09:** Proceedings of the 14th ACM SIGPLAN internationa
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Full text available: 📹 Mp4 (23:40 MIN), 📄 Pdf (520.21 KB) Additional Information: full cita

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During the life cycle of an XML application, both schemas and queries m
Schema evolutions may affect query results and potentially the validity
assess and accommodate ...

Keywords: XML, analysis, compatibility, evolution, queries, schema

Also published in:
August 2009 **SIGPLAN** Notices Volume 44 Issue 9

18 Queue: Volume 6 Issue 3
May 2008   Queue
Publisher: ACM
Full text available: Digital Edition , Pdf (5.56 MB) Additional Information: full citation

Bibliometrics: Downloads (6 Weeks): 83,   Downloads (12 Months): 268,   Downl

19 Fast detection of communication patterns in distributed executions
Thomas Kunz, Michiel F. H. Seuren
November 1997 **CASCON '97:** Proceedings of the 1997 conference of the C
research
Publisher: IBM Press
Full text available: Pdf (4.21 MB)   Additional Information: full citation, abst

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Understanding distributed applications is a tedious and difficult task. Vis
are often used to obtain a better understanding of the execution of the
Poet, an event ...

20 Communications of the ACM: Volume 52 Issue 7
July 2009   Communications of the ACM
Publisher: ACM
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1 CANDID: preventing sql injection attacks using dynamic candidate e
   Sruthi Bandhakavi, Prithvi Bisht, P. Madhusudan, V. N. Venkatakrishnan
   October 2007   **CCS '07:** Proceedings of the 14th ACM conference on Comp
   Publisher: ACM ◇ Request Permissions
   Full text available: 🔲 Pdf (426.01 KB)   Additional Information: full citation

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   SQL injection attacks are one of the topmost threats for applications wr
   specially crafted user input on web applications that use low level string

   Keywords: dynamic monitoring, retrofitting code, sql injection attacks,

2 GPGPU: general purpose computation on graphics hardware
   David Luebke, Mark Harris, Jens Krüger, Tim Purcell, Naga Govindaraju, Ia
   August 2004   **SIGGRAPH '04:** SIGGRAPH 2004 Course Notes
   Publisher: ACM ◇ Request Permissions
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   Bibliometrics: Downloads (6 Weeks): 135, Downloads (12 Months): 1446, Dov

   The graphics processor (GPU) on today's commodity video cards has ev
   latest graphics architectures provide tremendous memory bandwidth ar
   vertex ...

3 Simulation-based verification using Temporally Attributed Boolean Lc
   S. K. Panda, Arnab Roy, P. P. Chakrabarti, Rajeev Kumar
   September 2008 **Transactions on Design Automation of Electronic Sys**
   Publisher: ACM ◇ Request Permissions
   Full text available: 🔲 Pdf (1.49 MB)   Additional Information: full citation

   Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 76, Downloa

   We propose a specification logic called Temporally Attributed Boolean (T
   to: (i) represent assertions succinctly, (ii) incorporate data-orientation a

   Keywords: Bus verification, instruction semantics verification, interrup
   based verification, temporal logic, timing verification

4

Execution strategies for SQL subqueries

Mostafa Elhemali, César A. Galindo-Legaria, Torsten Grabs, Milind M. Joshi

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Optimizing SQL subqueries has been an active area in database researc
Previous work has already identified some approaches to efficiently exe

Keywords: microsoft SQL server, query optimization, relational databa

5   Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997   **CASCON '97:** Proceedings of the 1997 conference of the C

Publisher: IBM Press

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Understanding distributed applications is a tedious and difficult task. Vis
to obtain a better understanding of the execution of the application. The

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7   Communications of the ACM: Volume 51 Issue 12

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Publisher: ACM

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Bibliometrics: Downloads (6 Weeks): 471,   Downloads (12 Months): 3165,   Dov

8   C and tcc: a language and compiler for dynamic code generation

Massimiliano Poletto, Wilson C. Hsieh, Dawson R. Engler, M. Frans Kaashoe

March 1999   **Transactions on Programming Languages and System**

Publisher: ACM ◆ Request Permissions

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Bibliometrics: Downloads (6 Weeks): 9,   Downloads (12 Months): 98,   Downloa

Dynamic code generation allows programmers to use run-time informat
superior to those of static code. The 'C(Tick C) language is a superset o

Keywords: ANSI C, compilers, dynamic code generation, dynamic code

9   Analyzing recursive programs using a fixed-point calculus

Salvatore La Torre, Madhusudan Parthasarathy, Gennaro Pariato
June 2009　　**PLDI '09: Proceedings of the 2009 ACM SIGPLAN conferenc**
Publisher: ACM ◇ Request Permissions
Full text available: 🗎 Pdf (451.55 KB)　　　　　　Additional Information: full citation

Bibliometrics: Downloads (6 Weeks): 15,　Downloads (12 Months): 125,　Downl

We show that recursive programs where variables range over finite dom
describing the analysis algorithm using a formula in a fixed-point calcul
...

Keywords: abstraction, logic, model-checking, mu-calculus, recursive :

Also published in:
May 2009 **SIGPLAN Notices** Volume 44 Issue 6

10 Conditional functional dependencies for capturing data inconsistenci
Wenfei Fan, Floris Geerts, Xibei Jia, Anastasios Kementsietsidis
June 2008　　**Transactions on Database Systems (TODS)** , Volume 33 Is
Publisher: ACM ◇ Request Permissions
Full text available: 🗎 Pdf (831.51 KB)　　　　　　Additional Information: full citation

Bibliometrics: Downloads (6 Weeks): 31,　Downloads (12 Months): 270,　Downl

We propose a class of integrity constraints for relational databases, refe
study their applications in data cleaning. In contrast to traditional functi

Keywords: Data cleaning, SQL, functional dependency

11 Relational profiling: enabling thread-level parallelism in virtual machi
Timothy Heil, James E. Smith
December 2000 **MICRO 33: Proceedings of the 33rd annual ACM/IEEE inte**
Publisher: ACM
Full text available: 🖥 Publisher Site , 🗎 Pdf (237.19 KB), 📄 Ps (1.61 MB) Additional Info

Bibliometrics: Downloads (6 Weeks): 2,　Downloads (12 Months): 32,　Downloa

12 Guide for the use of the Ada Ravenscar Profile in high integrity syste
Alan Burns, Brian Dobbing, Tullio Vardanega
June 2004　　**SIGAda Ada Letters** , Volume XXIV Issue 2
Publisher: ACM
Full text available: 🗎 Pdf (548.17 KB)　　　　　Additional Information: full citation, reference

Bibliometrics: Downloads (6 Weeks): 6,　Downloads (12 Months): 48,　Downloa

13 EXE: Automatically Generating Inputs of Death
Cristian Cadar, Vijay Ganesh, Peter M. Pawlowski, David L. Dill, Dawson R.
December 2008 **Transactions on Information and System Security (T**
Publisher: ACM ◇ Request Permissions
Full text available: 🗎 Pdf (631.32 KB)　　　　　　Additional Information: full citation

Bibliometrics: Downloads (6 Weeks): 26,　Downloads (12 Months): 273,　Downl

This article presents EXE, an effective bug-finding tool that automaticall
code on manually or randomly constructed input, EXE runs it on symbol

Keywords: attack generation, bug finding, constraint solving, dynamic

14 Saturn: A scalable framework for error detection using Boolean satis
Yichen Xie, Alex Aiken
May 2007   **Transactions on Programming Languages and System**
Publisher: ACM ◊ Request Permissions
Full text available: Pdf (742.22 KB)   Additional Information: full citatior

Bibliometrics: Downloads (6 Weeks): 18,   Downloads (12 Months): 104,   Downl

This article presents Saturn, a general framework for building precise ar
recent advances in Boolean satisfiability (SAT) solvers and is path sensi

Keywords: Boolean satisfiability, Program analysis, error detection

15 HOTTest: A model-based test design technique for enhanced testing
Avik Sinha, Carol Smidts
July 2006   **Transactions on Software Engineering and Methodolog**
Publisher: ACM ◊ Request Permissions
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Bibliometrics: Downloads (6 Weeks): 18,   Downloads (12 Months): 213,   Downl

Model-based testing is an effective black-box test generation technique
however, fail to capture implicit domain-specific properties, as they ove

Keywords: Haskell, HaskellDB, Test case generation, database-specific
specific testing, model-based testing, test generation tools

16 Processing set expressions over continuous update streams
Sumit Ganguly, Minos Garofalakis, Rajeev Rastogi
June 2003   **SIGMOD '03**: Proceedings of the 2003 ACM SIGMOD Intern
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There is growing interest in algorithms for processing and querying cont
fixed order) with limited memory resources. In its most general form, a

17 EXE: automatically generating inputs of death
Cristian Cadar, Vijay Ganesh, Peter M. Pawlowski, David L. Dill, Dawson R.
October 2006   **CCS '06**: Proceedings of the 13th ACM conference on Comp
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Bibliometrics: Downloads (6 Weeks): 19,   Downloads (12 Months): 116,   Downl

This paper presents EXE, an effective bug-finding tool that automatically
code on manually or randomly constructed input, EXE runs it on symbol

Keywords: attack generation, bug finding, constraint solving, dynamic

18 Software model checking
Ranjit Jhala, Rupak Majumdar
October 2009   **Computing Surveys (CSUR)** , Volume 41 Issue 4
Publisher: ACM ◇ Request Permissions
Full text available: 📄 Pdf (815.33 KB)   Additional Information: full citation

Bibliometrics: Downloads (6 Weeks): 208,   Downloads (12 Months): 860,   Down

We survey recent progress in software model checking.

Keywords: Software model checking, abstraction, counterexample-gui
liveness, safety

19 Scalable error detection using boolean satisfiability
Yichen Xie, Alex Aiken
January 2005   **POPL '05:** Proceedings of the 32nd ACM SIGPLAN-SIGACT
Publisher: ACM ◇ Request Permissions
Full text available: 📄 Pdf (276.56 KB)   Additional Information: full citation

Bibliometrics: Downloads (6 Weeks): 10,   Downloads (12 Months): 84,   Downlo

We describe a software error-detection tool that exploits recent advance
path sensitive, precise down to the bit level, and models pointers and h

Keywords: boolean satisfiability, error detection, program analysis

Also published in:
January 2005 **SIGPLAN Notices** Volume 40 Issue 1

20 A system for the static analysis of XPath
Pierre Genevès, Nabil Layaïda
October 2006   **Transactions on Information Systems (TOIS)** , Volume 2∢
Publisher: ACM ◇ Request Permissions
Full text available: 📄 Pdf (1.31 MB)   Additional Information: full citation

Bibliometrics: Downloads (6 Weeks): 11,   Downloads (12 Months): 59.   Downlo

XPath is the standard language for navigating XML documents and retur
complete decision procedure for containment of XPath queries, as well a
satisfiability, ...

Keywords: Containment, XML, XPath, equivalence, logic, query

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1 GPGPU: general purpose computation on graphics hardware
David Luebke, Mark Harris, Jens Krüger, Tim Purcell, Naga Govindaraju, Ia
August 2004   **SIGGRAPH '04:** SIGGRAPH 2004 Course Notes
Publisher: ACM ◆ Request Permissions
Full text available: 📄 Pdf (63.03 MB)   Additional Information: full citatio

Bibliometrics: Downloads (6 Weeks): 135, Downloads (12 Months): 1446, Dov

The graphics processor (GPU) on today's commodity video cards has ev
latest graphics architectures provide tremendous memory bandwidth ar
vertex ...

2 Fast detection of communication patterns in distributed executions
Thomas Kunz, Michiel F. H. Seuren
November 1997 **CASCON '97:** Proceedings of the 1997 conference of the C
Publisher: IBM Press
Full text available: 📄 Pdf (4.21 MB)   Additional Information: full citatio

Bibliometrics: Downloads (6 Weeks): 26, Downloads (12 Months): 348, Downl

Understanding distributed applications is a tedious and difficult task. Vis
to obtain a better understanding of the execution of the application. The

3 C and tcc: a language and compiler for dynamic code generation
Massimiliano Poletto, Wilson C. Hsieh, Dawson R. Engler, M. Frans Kaashoe
March 1999   **Transactions on Programming Languages and System**
Publisher: ACM ◆ Request Permissions
Full text available: 📄 Pdf (471.68 KB)   Additional Information: full citatio

Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 98, Downloa

Dynamic code generation allows programmers to use run-time informat
superior to those of static code. The 'C(Tick C) language is a superset o

Keywords: ANSI C, compilers, dynamic code generation, dynamic code

4

Relational profiling: enabling thread-level parallelism in virtual machii

Timothy Heil, James E. Smith
December 2000 **MICRO 33:** Proceedings of the 33rd annual ACM/IEEE inte
Publisher: ACM
Full text available: Publisher Site , Pdf (237.19 KB), Ps (1.61 MB) Additional Info

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 32, Downloa

5 Guide for the use of the Ada Ravenscar Profile in high integrity syste
Alan Burns, Brian Dobbing, Tullio Vardanega
June 2004 **SIGAda Ada Letters** , Volume XXIV Issue 2
Publisher: ACM
Full text available: Pdf (548.17 KB)   Additional Information: full citation, reference

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 48, Downloa

6 Processing set expressions over continuous update streams
Sumit Ganguly, Minos Garofalakis, Rajeev Rastogi
June 2003   **SIGMOD '03:** Proceedings of the 2003 ACM SIGMOD intern
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There is growing interest in algorithms for processing and querying cont
fixed order) with limited memory resources. In its most general form, a

7 A graph based architectural (Re)configuration language
Michel Wermelinger, Antónia Lopes, José Luiz Fiadeiro
September 2001 **ESEC/FSE-9:** Proceedings of the 8th European software e
international symposium on Foundations of software engin
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For several different reasons, such as changes in the business or techno
need to evolve during execution. Support for such evolution can be con

Also published in:
September 2001 **SIGSOFT Software Engineering Notes** Volume 26 Issue 5

8 A framework for modeling and implementing visual notations with ap
Gennaro Costagliola, Vincenzo Deufemia, Giuseppe Polese
October 2004   **Transactions on Software Engineering and Methodolo**
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We present a framework for modeling visual notations and for generatin
framework can be used for modeling the diagrammatic notations of soft

Keywords: LR parsing, UML, meta-CASE, metamodeling, software engi

9 Defining interaction protocols using a commitment-based agent com

Nicoletta Fornara, Marco Colombetti

July 2003   **AAMAS '03:** Proceedings of the second international joint c

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Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 54, Downloa

We propose a method for the definition of *interaction protocols* to be us
assumption that *language* is the fundamental component of every intera

Keywords: agent communication language, auction, commitment, com
system

10 Silhouette maps for improved texture magnification

Pradeep Sen

August 2004   **HWWS '04:** Proceedings of the ACM SIGGRAPH/EUROGRAP

Publisher: ACM

Full text available: Pdf (14.00 MB)   Additional Information: full citation

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 35, Downloa

Texture mapping is a simple way of increasing visual realism without ac
process, it is important to properly filter samples when the sampling rat

11 An XML query engine for network-bound data

Zachary G. Ives, A. Y. Halevy, D. S. Weld

December 2002 **The VLDB Journal — The International Journal on Ver**

Publisher: Springer-Verlag New York, Inc.

Full text available: Pdf (351.86 KB)   Additional Information: full citation

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XML has become the lingua franca for data exchange and integration ac
data providers are adding XML import or export capabilities, and standa
types ...

Keywords: Data integration, Data streams, Query processing, Web and

12 Algorithms for computing the static single assignment form

Gianfranco Bilardi, Keshav Pingali

May 2003   **Journal of the ACM (JACM)** , Volume 50 Issue 3

Publisher: ACM ◆ Request Permissions

Full text available: Pdf (576.44 KB)   Additional Information: full citation

Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 99, Downloa

The Static Single Assignment (SSA) form is a program representation u
converting a program to SSA form is called φ-placement. Many algorith

Keywords: Control dependence, optimizing compilers, program optimi

form

13 Tracking set-expression cardinalities over continuous update stream
Sumit Ganguly, Minos Garofalakis, Rajeev Rastogi
December 2004 **The VLDB Journal — The International Journal on Ver**
Publisher: Springer-Verlag New York, Inc.
Full text available: 📄 Pdf (322.42 KB)   Additional Information: full citation

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 12, Downloa

There is growing interest in algorithms for processing and querying cont
order) with limited memory resources. In its most general form, a data

Keywords: Approximate query processing, Data streams, Data synops

14 A comprehensive XQuery to SQL translation using dynamic interval
David DeHaan, David Toman, Mariano P. Consens, M. Tamer Özsu
June 2003   **SIGMOD '03**: Proceedings of the 2003 ACM SIGMOD intern
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The W3C XQuery language recommendation, based on a hierarchical an
constructs and use cases. There is a diversity of approaches and stratec
dealing ...

15 Optimal control dependence computation and the Roman chariots pr
Keshav Pingali, Gianfranco Bilardi
May 1997   **Transactions on Programming Languages and System**
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Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 74, Downloa

The control dependence relation plays a fundamental role in program re
this relation is the control dependence graph (CDG), but the size of the

Keywords: compilers, control dependence, program optimization, prog

16 Computing curricula 2001
CORPORATE The Joint Task Force on Computing Curricula
September 2001 **Journal on Educational Resources in Computing (JER**
Publisher: ACM ◆〉 Request Permissions
Full text available: 📄 Html (2.78 KB), 📄 Pdf (613.63 KB) Additional Information: full citation

Bibliometrics: Downloads (6 Weeks): 93, Downloads (12 Months): 1086, Dow

17 Selection conditions in main memory
Kenneth A. Ross
March 2004   **Transactions on Database Systems (TODS)** , Volume 29 Is
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We consider the fundamental operation of applying a compound filterinç available cheaply, systems may choose to keep the data entirely in mair performance.The ...

Keywords: Branch misprediction

18 Level set and PDE methods for computer graphics

David Breen, Ron Fedkiw, Ken Museth, Stanley Osher, Guillermo Sapiro, R
August 2004   **SIGGRAPH '04**: SIGGRAPH 2004 Course Notes

Publisher: ACM ◇ Request Permissions

Full text available: Pdf (17.07 MB)   Additional Information: full citatior

Bibliometrics: Downloads (6 Weeks): 98,   Downloads (12 Months): 970,   Downl

Level set methods, an important class of partial differential equation (PI set (iso-surface) of a sampled, evolving nD function. The course begins

19 Commutativity analysis: a new analysis technique for parallelizing co

Pedro C. Diniz / Martin C. Rinard
November 1997   **Transactions on Programming Languages and Systen**

Publisher: ACM ◇ Request Permissions

Full text available: Pdf (472.62 KB)   Additional Information: full citatior

Bibliometrics: Downloads (6 Weeks): 7,   Downloads (12 Months): 65,   Downloa

This article presents a new analysis technique, commutativity analysis, dynamic, pointer-based data structures. Commutativity analysis views t

Keywords: parallel computing

20 Real-time shading

Marc Olano, Kurt Akeley, John C. Hart, Wolfgang Heidrich, Michael McCool,
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        XML has become the lingua franca for data exchange and integration ac
        boundaries. Nearly all data providers are adding XML import or export o
        and DTDs are being promoted for all types ...

        Keywords: Data integration, Data streams, Query processing, Web and

2 The complexity of acyclic conjunctive queries
   Georg Gottlob, Nicola Leone, Francesco Scarcello
   May 2001 **Journal of the ACM (JACM)** , Volume 48 Issue 3
   Publisher: ACM ◆ Request Permissions
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        This paper deals with the evaluation of acyclic Boolean conjunctive quer
        known results of Yannakakis[1981], this problem is solvable in polynom
        however, has not been pinpointed ...

        Keywords: CSP, LOGCFL, acyclic hypergraph, algorithm, bounded tree
        constraint satisfaction problem, database theory, degree of cyclicity, hir
        containment, qury-idth, subsumption, tree query

3 Semantic caching of Web queries
   Boris Chidlovskii, Uwe M. Borghoff
   March 2000 **The VLDB Journal — The International Journal on Very L**
   Publisher: Springer-Verlag New York, Inc.
   Full text available: 🔖 Pdf (235.02 KB)   Additional Information: full citation, abstrac

   Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 52, Downloa

In meta-searchers accessing distributed Web-based information reposit
Efficient query processing requires an appropriate caching mechanism.
well as tuple-based caching mechanisms ...

Keywords: Experiments, Query algorithms, Region containment, Sema

4 PSoup: a system for streaming queries over streaming data
Sirish Chandrasekaran, Michael J. Franklin
August 2003 **The VLDB Journal — The International Journal on Very L**
Publisher: Springer-Verlag New York, Inc.
Full text available: Pdf (267.99 KB)   Additional Information: full citation, abstra

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 41, Downloa

Abstract.Recent work on querying data streams has focused on systems
and continuously streamed to the user in real time. In many emerging a
and/or intermittent connectivity also ...

Keywords: Disconnected operation, Query-data duality, Stream query

5 GPGPU: general purpose computation on graphics hardware
David Luebke, Mark Harris, Jens Krüger, Tim Purcell, Naga Govindaraju, Ia
August 2004 **SIGGRAPH '04: SIGGRAPH 2004 Course Notes**
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The graphics processor (GPU) on today's commodity video cards has ev
flexible processor. The latest graphics architectures provide tremendous
horsepower, with fully programmable vertex ...

6 XIRQL: An XML query language based on information retrieval conc
Norbert Fuhr, Kai Großjohann
April 2004   **Transactions on Information Systems (TOIS)** , Volume 22 Is
Publisher: ACM   Request Permissions
Full text available: Pdf (281.91 KB)   Additional Information: full citation, abstra

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XIRQL ("circle") is an XML query language that incorporates imprecision
content-oriented query conditions. The corresponding uncertainty is har
model. The core features of XIRQL ...

Keywords: Path algebra, XML, XQuery, probabilistic retrieval, ranked r

7 Optimizing object queries using an effective calculus
Leonidas Fegaras, David Maier
December 2000 **Transactions on Database Systems (TODS)** , Volume 25 I
Publisher: ACM   Request Permissions

Object-oriented databases (OODBs) provide powerful data abstractions
generally lack a suitable framework for query processing and optimizati
query optimizer is one of the key factors ...

Keywords: nested relations, object-oriented databases, query decorrel

8 On relational support for XML publishing: beyond sorting and tagging
Surajit Chaudhuri, Raghav Kaushik, Jeffrey F. Naughton
June 2003   SIGMOD '03: Proceedings of the 2003 ACM SIGMOD internati
data
Publisher: ACM Request Permissions

In this paper, we study whether the need for efficient XML publishing br
relational query engines, or if sorting query results in the relational eng
sufficient. We observe that the mismatch ...

9 Definable relations and first-order query languages over strings
Michael Benedikt, Leonid Libkin, Thomas Schwentick, Luc Segoufin
September 2003 Journal of the ACM (JACM) , Volume 50 Issue 5
Publisher: ACM Request Permissions

We study analogs of classical relational calculus in the context of strings
Taking a classical model-theoretic approach, we fix a set of string opera
collection of definable relations. ...

Keywords: Strings, expressive power, first-order definability, quantifie

10 Approximate query mapping: Accounting for translation closeness
Kevin Chen-Chuan Chang, Héctor García-Molina
September 2001 The VLDB Journal — The International Journal on Ve
3
Publisher: Springer-Verlag New York, Inc.

In this paper we present a mechanism for approximately translating Boo
heterogeneous information sources. Achieving the best translation is ch
different constraints for formulating queries, ...

Keywords: Approximate query translation, Closeness, Constraint-mapp

11 Relational queries over interpreted structures

Michael Benedikt, Leonid Libkin

July 2000 **Journal of the ACM (JACM)** , Volume 47 Issue 4

Publisher: ACM ◇ Request Permissions

Full text available: Pdf (455.92 KB)　　　Additional Information: full citation, abstra

Bibliometrics: Downloads (6 Weeks): 6,　Downloads (12 Months): 46,　Downlo

We rework parts of the classical relational theory when the underlying d
interpreted operations that can be used in queries. We identify parts of
before' when interpreted structure ...

Keywords: 0-minimality, collapse results, constraints, quantifier elimin

12 A comprehensive XQuery to SQL translation using dynamic interval

David DeHaan, David Toman, Mariano P. Consens, M. Tamer Ozsu

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The W3C XQuery language recommendation, based on a hierarchical an
wide variety of constructs and use cases. There is a diversity of approac
XQuery expressions, in many cases only dealing ...

13 Video query processing in the VDBMS testbed for video database re

Walid Aref, Moustafa Hammad, Ann Christine Catlin, Ihab Ilyas, Thanaa Gh
Marzouk

November 2003 **MMDB '03:** Proceedings of the 1st ACM International works

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Bibliometrics: Downloads (6 Weeks): 5,　Downloads (12 Months): 39,　Downloa

The increased use of video data sets for multimedia-based applications
database support, including efficient methods for handling the content-I
Video query processing presents ...

Keywords: continuous query, query processing, rank-join algorithm, st
window-join algorithm

14 The complexity of XPath query evaluation

Georg Gottlob, Christoph Koch, Reinhard Pichler

June 2003 **PODS '03:** Proceedings of the twenty-second ACM SIGMOD-S
of database systems

Publisher: ACM ◇ Request Permissions

Full text available: Pdf (258.64 KB)　　　Additional Information: full citation, abstra

Bibliometrics: Downloads (6 Weeks): 4,　Downloads (12 Months): 67,　Downloa

In this paper, we study the precise complexity of XPath 1.0 query proce
incorporation into a variety of XML-related standards, the precise cost o
wellunderstood. The first polynomial-time ...

15 Real-time shading

Marc Olano, Kurt Akeley, John C. Hart, Wolfgang Heidrich, Michael McCool,
August 2004 **SIGGRAPH '04:** SIGGRAPH 2004 Course Notes

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Full text available: Pdf (7.39 MB)   Additional Information: full citation, abstrac

Bibliometrics: Downloads (6 Weeks): 49, Downloads (12 Months): 606, Downl

Real-time procedural shading was once seen as a distant dream. When
offered four years ago, real-time shading was possible, but only with on
the effects of tens to hundreds of rendering ...

16 Processing set expressions over continuous update streams

Sumit Ganguly, Minos Garofalakis, Rajeev Rastogi
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data

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There is growing interest in algorithms for processing and querying conl
seen only once in a fixed order) with limited memory resources. In its n
actually an *update* stream, ...

17 Jedd: a BDD-based relational extension of Java

Ondřej Lhoták, Laurie Hendren
June 2004   **PLDI '04:** Proceedings of the ACM SIGPLAN 2004 conference
implementation

Publisher: ACM Request Permissions

Full text available: Pdf (137.26 KB)   Additional Information: full citation, abstrac

Bibliometrics: Downloads (6 Weeks): 12, Downloads (12 Months): 53, Downlo

In this paper we present Jedd, a language extension to Java that suppo
with Binary Decision Diagrams (BDDs). The Jedd language abstracts BD
operations on relations, and provides static ...

Keywords: Java, binary decision diagrams, boolean formula satisfiabili
relations

Also published in:
June 2004 **SIGPLAN Notices** Volume 39 Issue 6

18 Alloy: a lightweight object modelling notation

Daniel Jackson
April 2002   **Transactions on Software Engineering and Methodology**

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Pdf (346.87 KB)   full citation, abstra

Bibliometrics: Downloads (6 Weeks): 43, Downloads (12 Months): 238, Downl

Alloy is a little language for describing structural properties. It offers a c
graphical object models, and a set-based formula syntax powerful enou
yet amenable to a fully automatic ...

Keywords: Object models, Z specification language, first-order logic

19 An Internet-based negotiation server for e-commerce
Stanley Y.W. Su, Chunbo Huang, Joachim Hammer, Yihua Huang, Haifei Li,
Pluempitiwiriyawej, Minsoo Lee, Herman Lam
August 2001 **The VLDB Journal — The International Journal on Very L**
Publisher: Springer-Verlag New York, Inc.
Full text available: Pdf (355.19 KB)   Additional Information: full citation, abstra

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 109, Downl

This paper describes the design and implementation of a replicable, Inte
conducting bargaining-type negotiations between enterprises involved i
Enterprises can be buyers and sellers of products/services ...

Keywords: Constraint evaluation, Cost- benefit analysis, Database, E-c
strategy, Negotiation protocol

20 Beyond intratransaction association analysis: mining multidimension
Hongjun Lu, Ling Feng, Jiawei Han
October 2000 **Transactions on Information Systems (TOIS)** , Volume 18
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Bibliometrics: Downloads (6 Weeks): 15, Downloads (12 Months): 129, Downl

In this paper, we extend the scope of mining association rules from trac
intratransaction associations, to multidimensional intertransaction assoc
are the associations among items with ...

Keywords: association rules, data mining, intra/intertransaction, multi-

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   Zachary G. Ives, A. Y. Halevy, D. S. Weld
   December 2002 **The VLDB Journal — The International Journal on Ver**
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       XML has become the lingua franca for data exchange and integration ac
       boundaries. Nearly all data providers are adding XML import or export c
       and DTDs are being promoted for all types ...

       Keywords: Data integration, Data streams, Query processing, Web and

2 The complexity of acyclic conjunctive queries
   Georg Gottlob, Nicola Leone, Francesco Scarcello
   May 2001   **Journal of the ACM (JACM)** , Volume 48 Issue 3
   Publisher: ACM ◇ Request Permissions
   Full text available: 📄 Pdf (566.16 KB)   Additional Information: full citation, abstrac

   Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 105, Downlo

       This paper deals with the evaluation of acyclic Boolean conjunctive quer
       known results of Yannakakis[1981], this problem is solvable in polynom
       however, has not been pinpointed ...

       Keywords: CSP, LOGCFL, acyclic hypergraph, algorithm, bounded tree
       constraint satisfaction problem, database theory, degree of cyclicity, hir
       containment, qury-idth, subsumption, tree query

3 Semantic caching of Web queries
   Boris Chidlovskii, Uwe M. Borghoff
   March 2000   **The VLDB Journal — The International Journal on Very L**
   Publisher: Springer-Verlag New York, Inc.
   Full text available: 📄 Pdf (235.09 KB)   Additional Information: full citation, abstrac

   Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 52, Downloa

In meta-searchers accessing distributed Web-based information reposit:
Efficient query processing requires an appropriate caching mechanism. I
well as tuple-based caching mechanisms ...

Keywords: Experiments, Query algorithms, Region containment, Sema

4 PSoup: a system for streaming queries over streaming data
Sirish Chandrasekaran, Michael J. Franklin
August 2003 **The VLDB Journal — The International Journal on Very L**
Publisher: Springer-Verlag New York, Inc.
Full text available: Pdf (267.99 KB)   Additional Information: full citation, abstra

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 41, Downloa

Abstract.Recent work on querying data streams has focused on systems
and continuously streamed to the user in real time. In many emerging a
and/or intermittent connectivity also ...

Keywords: Disconnected operation, Query-data duality, Stream query

5 On relational support for XML publishing: beyond sorting and tagging
Surajit Chaudhuri, Raghav Kaushik, Jeffrey F. Naughton
June 2003 **SIGMOD '03:** Proceedings of the 2003 ACM SIGMOD internati
data
Publisher: ACM Request Permissions
Full text available: Pdf (237.72 KB)   Additional Information: full citation, abstra

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 22, Downloa

In this paper, we study whether the need for efficient XML publishing br
relational query engines, or if sorting query results in the relational eng
sufficient. We observe that the mismatch ...

6 GPGPU: general purpose computation on graphics hardware
David Luebke, Mark Harris, Jens Krüger, Tim Purcell, Naga Govindaraju, Ia
August 2004 **SIGGRAPH '04:** SIGGRAPH 2004 Course Notes
Publisher: ACM Request Permissions
Full text available: Pdf (63.03 MB)   Additional Information: full citation, abstra

Bibliometrics: Downloads (6 Weeks): 135, Downloads (12 Months): 1446, Dov

The graphics processor (GPU) on today's commodity video cards has ev
flexible processor. The latest graphics architectures provide tremendous
horsepower, with fully programmable vertex ...

7 Optimizing object queries using an effective calculus
Leonidas Fegaras, David Maier
December 2000 **Transactions on Database Systems (TODS)** , Volume 25 I
Publisher: ACM Request Permissions
Full text available: Pdf (641.65 KB)   Additional Information: full citation, abstra

Object-oriented databases (OODBs) provide powerful data abstractions generally lack a suitable framework for query processing and optimizati query optimizer is one of the key factors ...

Keywords: nested relations, object-oriented databases, query decorrel

8   Definable relations and first-order query languages over strings
Michael Benedikt, Leonid Libkin, Thomas Schwentick, Luc Segoufin
September 2003   **Journal of the ACM (JACM)** , Volume 50 Issue 5
Publisher: ACM   Request Permissions
Full text available: Pdf (587.44 KB)   Additional information: full citation, abstra

We study analogs of classical relational calculus in the context of strings Taking a classical model-theoretic approach, we fix a set of string opera collection of definable relations. ...

Keywords: Strings, expressive power, first-order definability, quantifie

9   Approximate query mapping: Accounting for translation closeness
Kevin Chen-Chuan Chang, Héctor García-Molina
September 2001   **The VLDB Journal — The International Journal on Ve**
3
Publisher: Springer-Verlag New York, Inc.
Full text available: Pdf (661.19 KB)   Additional information: full citation, abstra

In this paper we present a mechanism for approximately translating Boo heterogeneous information sources. Achieving the best translation is ch different constraints for formulating queries, ...

Keywords: Approximate query translation, Closeness, Constraint-mapp

10   Relational queries over interpreted structures
Michael Benedikt, Leonid Libkin
July 2000   **Journal of the ACM (JACM)** , Volume 47 Issue 4
Publisher: ACM   Request Permissions
Full text available: Pdf (455.92 KB)   Additional information: full citation, abstra

We rework parts of the classical relational theory when the underlying d interpreted operations that can be used in queries. We identify parts of before' when interpreted structure ...

Keywords: 0-minimality, collapse results, constraints, quantifier elimin

11 A comprehensive XQuery to SQL translation using dynamic interval
David DeHaan, David Toman, Mariano P. Consens, M. Tamer Özsu
June 2003   **SIGMOD '03:** Proceedings of the 2003 ACM SIGMOD internati
data

Publisher: ACM ✦ Request Permissions
Full text available: 📄 Pdf (242.20 KB)   Additional Information: full citation, abstrac

Bibliometrics: Downloads (6 Weeks): 14,   Downloads (12 Months): 67,   Downlo

The W3C XQuery language recommendation, based on a hierarchical an
wide variety of constructs and use cases. There is a diversity of approac
XQuery expressions, in many cases only dealing ...

12 A performance study of four index structures for set-valued attributes
Sven Helmer, Guido Moerkotte
October 2003 **The VLDB Journal — The International Journal on Very**
Publisher: Springer-Verlag New York, Inc.
Full text available: 📄 Pdf (271.43 KB)   Additional Information: full citation, abstrac

Bibliometrics: Downloads (6 Weeks): 4,   Downloads (12 Months): 38,   Downloa

Abstract.The efficient retrieval of data items on set-valued attributes Is
attracted little attention so far. We studied and modified four index stru
signature trees, extendible ...

Keywords: Access methods, Database management systems, Index st
attributes

13 The effectiveness of automatically structured queries in digital librarie
Marcos André Gonçalves, Edward A. Fox, Aaron Krowne, Pável Calado, Albe
Berthier Ribeiro-Neto
June 2004   **JCDL '04:** Proceedings of the 4th ACM/IEEE-CS joint conferen
Publisher: ACM ✦ Request Permissions
Full text available: 📄 Pdf (295.40 KB)   Additional Information: full citation, abstrac

Bibliometrics: Downloads (6 Weeks): 2,   Downloads (12 Months): 44,   Downloa

Structured or fielded metadata is the basis for many digital library servi
Yet, little is known about the impact of using structure on the effectiven
investigate a key research ...

Keywords: bayesian networks, digital libraries, structured queries

14 The complexity of XPath query evaluation
Georg Gottlob, Christoph Koch, Reinhard Pichler
June 2003   **PODS '03:** Proceedings of the twenty-second ACM SIGMOD-S
of database systems
Publisher: ACM ✦ Request Permissions
Full text available: 📄 Pdf (258.64 KB)   Additional Information: full citation, abstrac

In this paper, we study the precise complexity of XPath 1.0 query proce
incorporation into a variety of XML-related standards, the precise cost o
wellunderstood. The first polynomial-time ...

15 A perspective on inductive databases

Luc De Raedt
December 2002 **SIGKDD Explorations Newsletter** , Volume 4 Issue 2
Publisher: ACM
Full text available: Pdf (179.64 KB)   Additional Information: full citation, abstra

Inductive databases tightly integrate databases with data mining. The k
models) are handled in the same way and that an inductive query langu
manipulate the patterns (or models) of ...

Keywords: constraint-based mining, inductive databases, inductive qu

16 Compound descriptors in context: a matching function for classificati

Douglas Tudhope, Ceri Binding, Dorothee Blocks, Daniel Cunliffe
July 2002   **JCDL '02:** Proceedings of the 2nd ACM/IEEE-CS joint conferer
Publisher: ACM   Request Permissions
Full text available: Pdf (315.09 KB)   Additional Information: full citation, abstra

There are many advantages for Digital Libraries in indexing with classifi
disincentive in the lack of flexible retrieval tools that deal with compoun
matching function for compound ...

Keywords: compound descriptors, faceted classification, knowledge or
postcoordination, precoordination, semantic distance measures, similari

17 Real-time shading

Marc Olano, Kurt Akeley, John C. Hart, Wolfgang Heidrich, Michael McCool,
August 2004 **SIGGRAPH '04:** SIGGRAPH 2004 Course Notes
Publisher: ACM   Request Permissions
Full text available: Pdf (7.39 MB)   Additional Information: full citation, abstra

Real-time procedural shading was once seen as a distant dream. When
offered four years ago, real-time shading was possible, but only with on
the effects of tens to hundreds of rendering ...

18 Logics capturing local properties

Leonid Libkin
January 2001 **Transactions on Computational Logic (TOCL)** , Volume 2 Is
Publisher: ACM   Request Permissions

Full text available: Pdf (186.32 KB)   Additional Information: full citation, abstrac

Well-known theorems of Hanf and Gaifman establishing locality of first-o
used in many applications. These theorems were recently generalized to
applications in descriptive complexity and ...

Keywords: counting, locality, logic

19   Alloy: a lightweight object modelling notation
    Daniel Jackson
    April 2002   **Transactions on Software Engineering and Methodology**
    Publisher: ACM ◆ Request Permissions
    Full text available: Pdf (346.87 KB)   Additional Information: full citation, abstrac

Alloy is a little language for describing structural properties. It offers a c
graphical object models, and a set-based formula syntax powerful enou
yet amenable to a fully automatic ...

Keywords: Object models, Z specification language, first-order logic

20   Faceted metadata for image search and browsing
    Ka-Ping Yee, Kirsten Swearingen, Kevin Li, Marti Hearst
    April 2003   **CHI '03**: Proceedings of the SIGCHI conference on Human fac
    Publisher: ACM ◆ Request Permissions
    Full text available: Pdf (823.20 KB)   Additional Information: full citation, abstrac
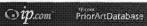
There are currently two dominant interface types for searching and brov
based search, and searching by overall similarity to sample images. We
enabling users to navigate along conceptual ...

Keywords: faceted metadata, image search interfaces

ip.com PriorArtDatabase

Displaying records #1 through 10 out of 15

Result # 1   Relevance: ○○○○○
A COMPARISON OF TWO METHODS FOR BOOLEAN QUERY RELEVAN
1983-07-31   IPCOM000148320D
.. READING ROOM . COMPUTER SCIENCE DEPARTMENT YALE UNIVERSITY BOOLXAB
Voorhees TR 83-564 July 1983 Department of Computer Science Cornell UniversityIt
Science, ...

Result # 2   Relevance: ○○○○
Advanced Feedback Methods in Information Retrieval
1983-08-31   IPCOM000148324D
Advmctd Feedback Kethods in Inforration Petrierrl E.A, FOX' E. Voorbees TB 83-570
Science Coraell UniversityIthaca. NY 14853 Department of Computer Science. Corne
'~e~artment of ...

Result # 3   Relevance: ○○
Agent System for Gathering, Integrating, Relevance Ranking and Pr
from Heterogeneous Information Sources
1998-01-01   IPCOM000122844D
Disclosed is an agent system that allows multiple heterogeneous information source:
response to a user's query. A user enters a single query into the agent system. The
the different ...

Result # 4   Relevance: ○○
Multi-search of video segments indexed by time-aligned annotation
2000-03-01   IPCOM000013063D
This paper describes an approach to the design and implementation of a video conte
efficient indexing and storing, and searching and browsing of video segments define
The annotation values ...

Result # 5   Relevance: ○○
The Use of Extended Boolean Logic in Informational Retrieval
1984-01-31   IPCOM000148339D
The Ume of Extended Boolerr , Logic in Irforrrtion Petrierr1 Gerard Salton TR 84-588
Science Cornell UniversityIthaca. New York 14853 This study was supported in part I
grant IST ...

Result # 6   Relevance: ○○
Common Name Resolution Protocol (CNRP) (RFC3367)
2002-08-01   IPCOM000009617D
People often refer to things in the real world by a common name or phrase, e.g., a t
These names are sometimes easier for people to remember and type than URLs. Fur
URLs, companies and ...

Result # 7   Relevance: ○
Naming and Directory Issues in Message Transfer Systems
1899-12-30   IPCOM000149103D

Naming and IDirectsry Issues in Mes.sage Transfer Systems Marvin A. Sirbu, Jr. Julic
81ciemce Massachusetts Institute sf Techn~legy Cambridge, Massachusetts CB.S.A.

requires some ...

Result # 8   Relevance: ⬙

Characterization of Two New Experimental Collections in Computer
Containing Textual and Bibliographic Concepts
1983-09-30   IPCOM000148311D

a Two new collections are described which are particularly uaefd for invmigating the bibliographic data in the automatic indexing and retrieval of documents. An extensio proposed whereby various types ...

Result # 9   Relevance: ⬙

Algorithms for Parsing Search Queries in Inverted File Document R:
1975-11-30   IPCOM000151331D

Algorithms for Parsing Search Queries in Inverted File Document Retrieval Systems : the National Science Foundation under Grants NSF DCR 73-07980 and NSF DCR 72-1 inverted file ...

Result # 10   Relevance: ⬙

A GENERALIZED TERM DEPENDENCE MODEL IN INFORMATION RETI
1983-02-28   IPCOM000148304D

February 1983 TR 83-543 *Department of Information Engineering, University of Illi **Department of Computer Science Cornel I University I thacar NY 14853 **Departr Koq This study ...

Displaying page 1 of 2   << FIRST | < BACK | NEXT > | LAST >>

Search query: boolean query

Published Before: 6-2-2004 (Original publication date)

New search | Modify this search | Search within current results

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February 04, 2010

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Manage Account
Purchased Disclosures

Publish ...

A New Disclosure

Search By ...

Full Text
Concept
Document ID

View ...

My Recent Activities/Events
My Published Disclosures
Most Recently Published

Navigate To ...

Main Page
Support
Logout

No records matched your search.

Perhaps you should try a less restrictive query.

Search query: boolean query condition counter
Published Before: 6-2-2004 (Original publication date)

New search | Modify this search

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Purchased Disclosures

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A New Disclosure

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Document ID

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No records matched your search.

Perhaps you should try a less restrictive query.

Search query: boolean query and condition counter
Published Before: 6-2-2004 (Original publication date)

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Search query: boolean query and operator counter
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Search By ...

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Concept
Document ID

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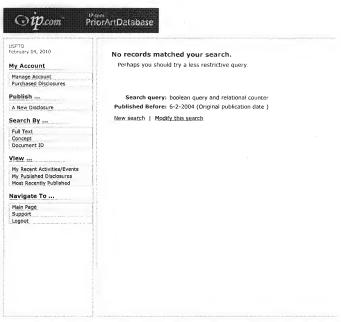Most Recently Published

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Search query: boolean query and relational counter
Published Before: 6-2-2004 (Original publication date)

New search | Modify this search